

EFFICIENT BRANCH PREDICTION STRUCTURE

Nuckolls, et al.

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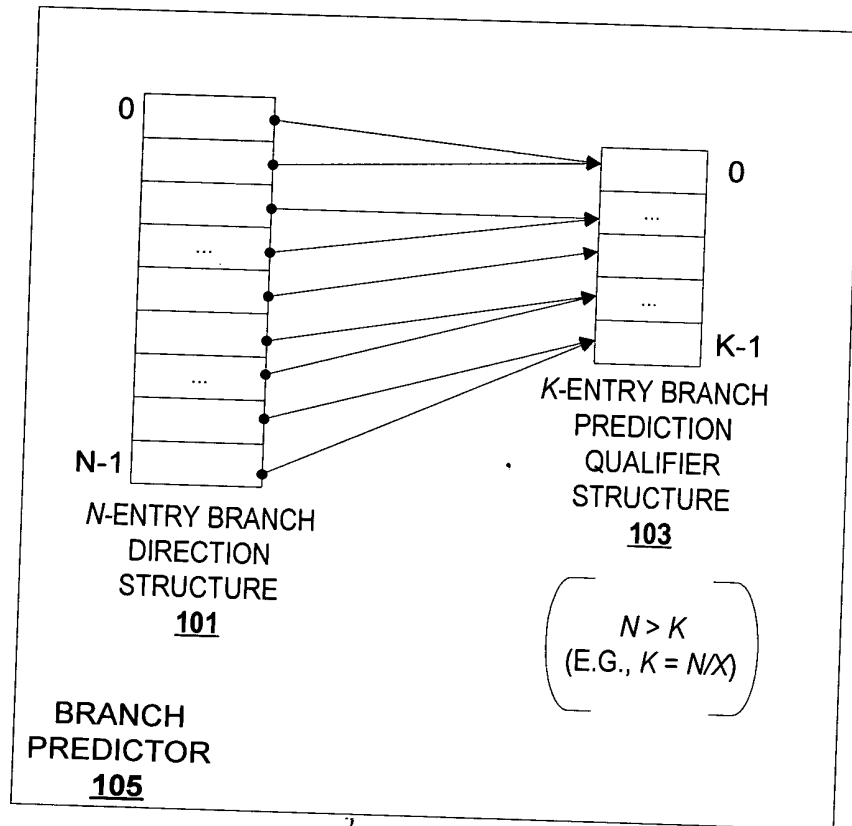


FIG. 1

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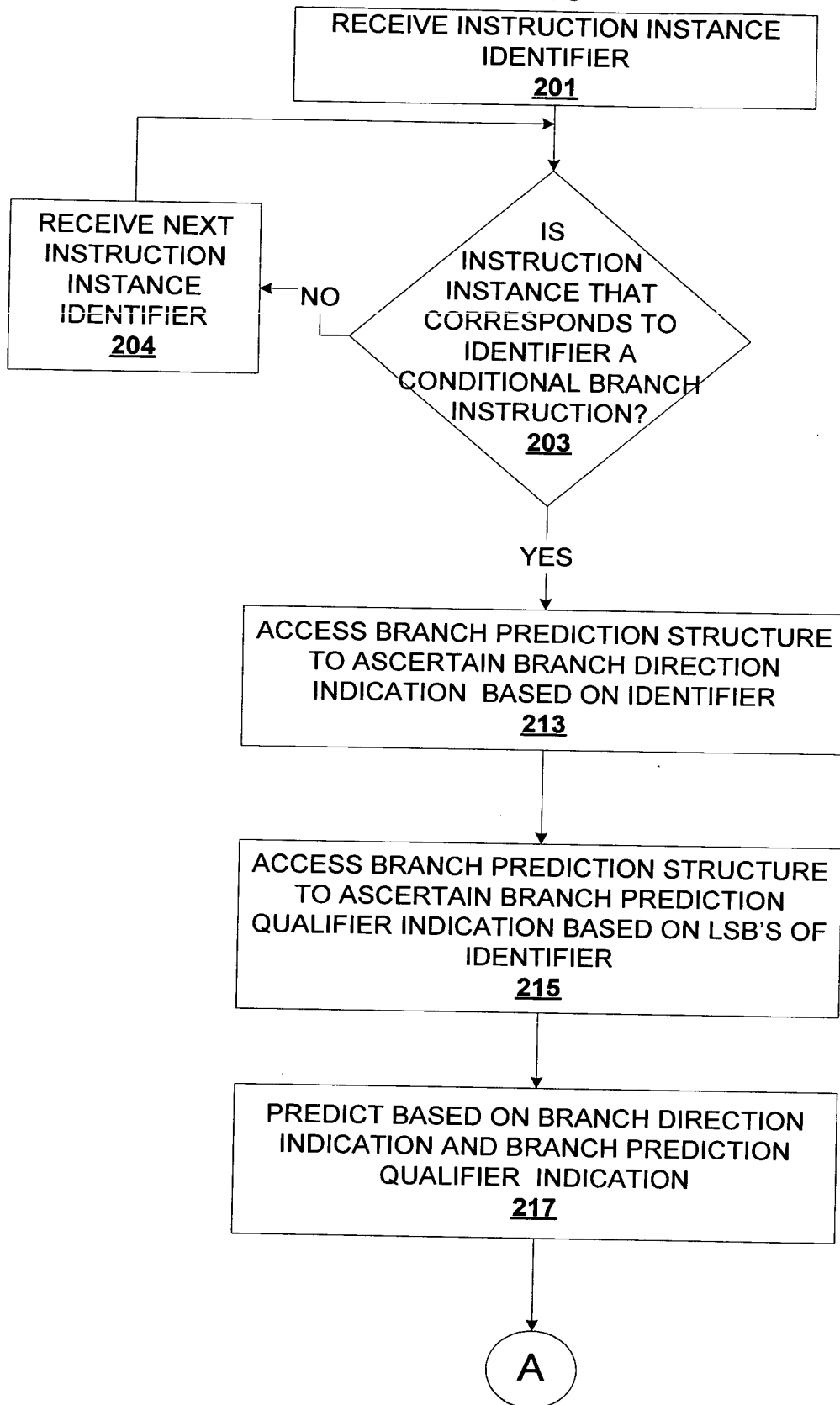


FIG. 2A

+

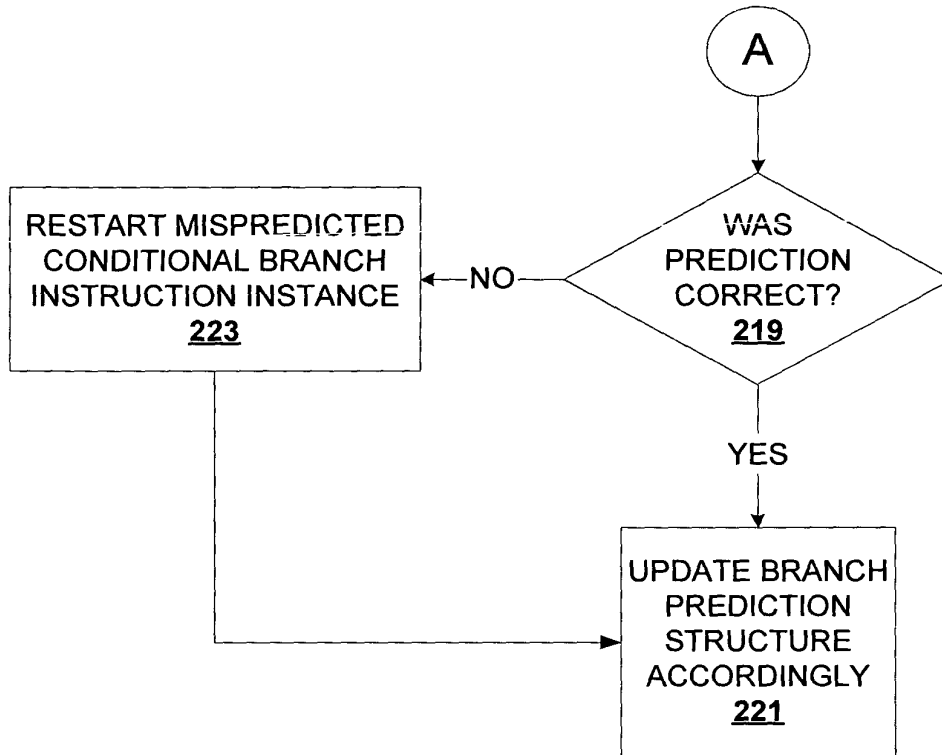


FIG. 2B

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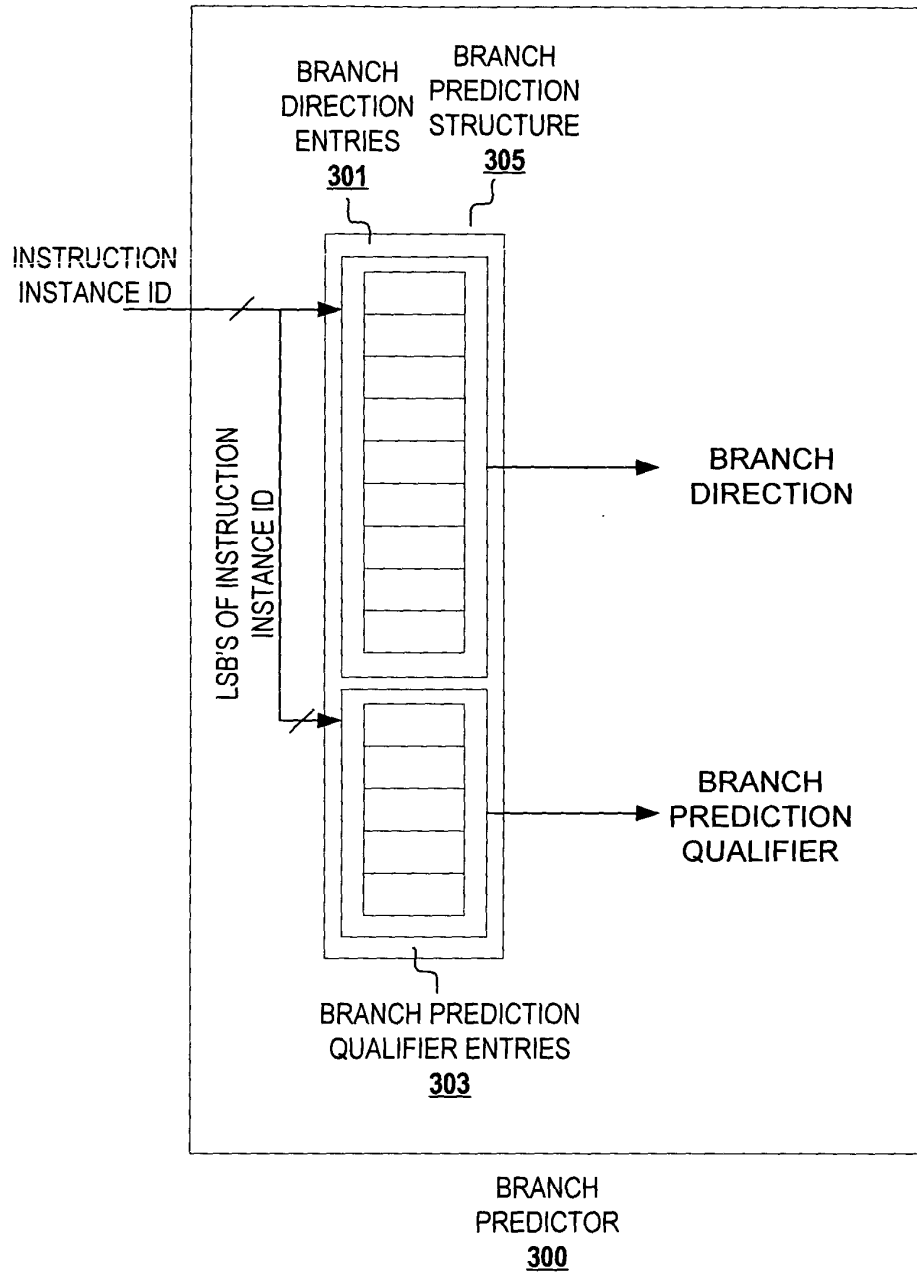


FIG. 3

EFFICIENT BRANCH PREDICTION STRUCTURE

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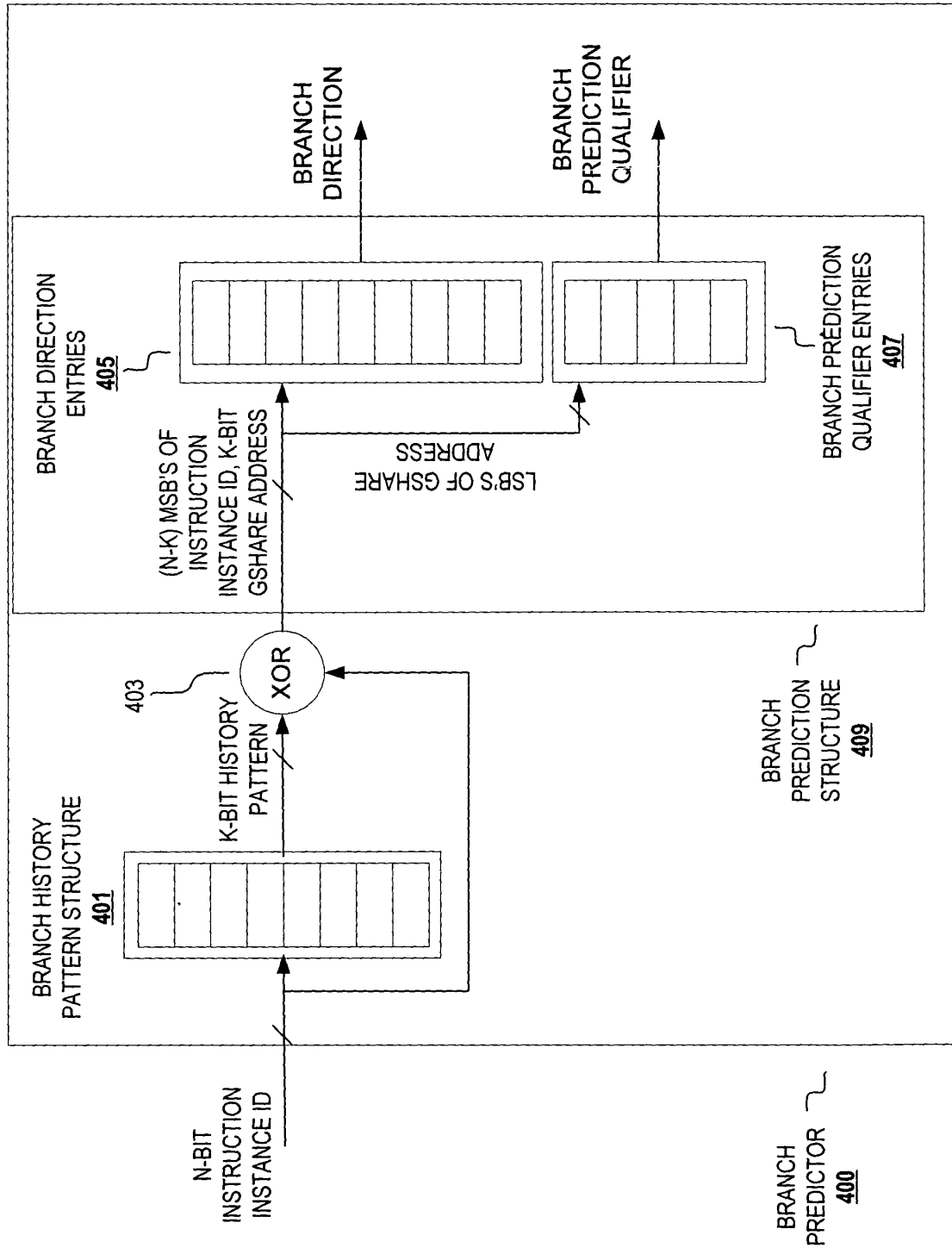


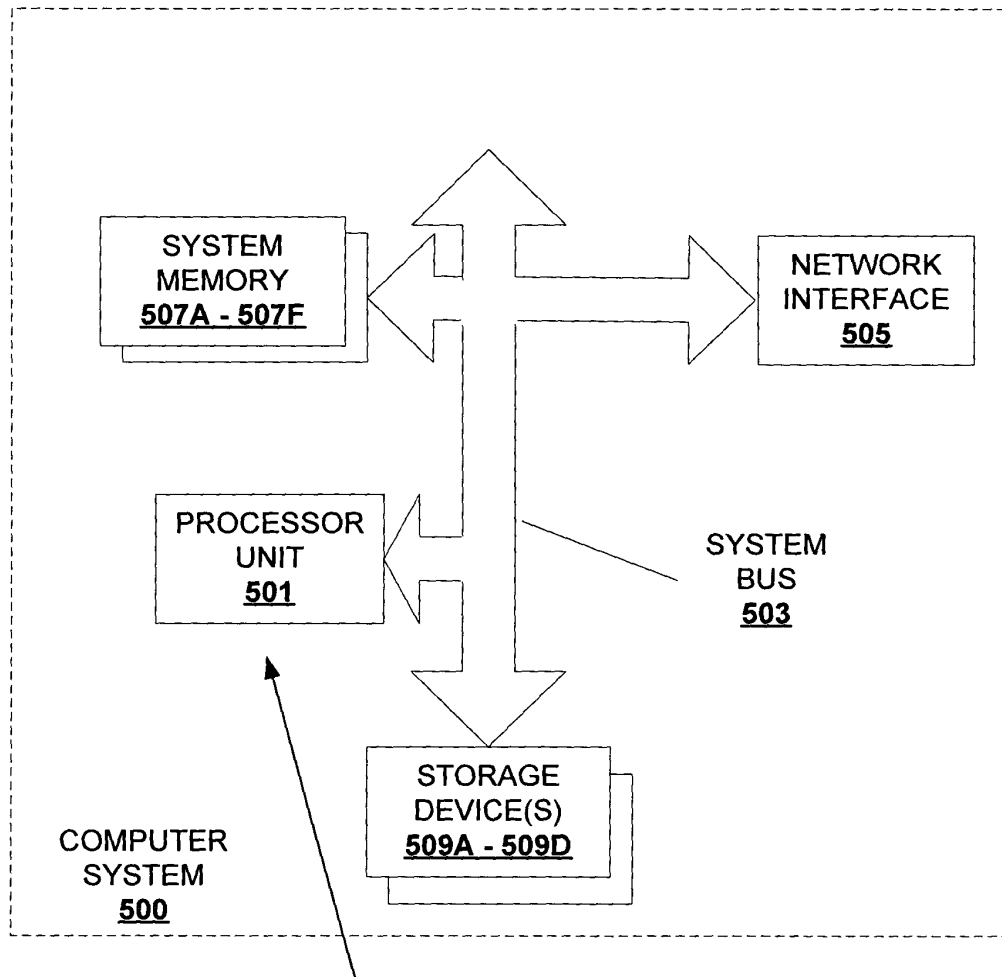
FIG. 4

EFFICIENT BRANCH PREDICTION STRUCTURE

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INCLUDES BRANCH
PREDICTION STRUCTURE
WITH X BRANCH DIRECTION
ENTRIES AND Y BRANCH
PREDICTION QUALIFIER
ENTRIES ($X > Y$)

FIG. 5